

# Control Box

## CB4M



### Features

- ◆ CB4M is a powerful control box designed for home bed, care bed, and other furniture applications. It is able to drive up to 4 actuators, and can operate with rechargeable batteries as an option. There are four versions in this series as CB4M, CB4M-S, CB4M-B, and CB4M-P.
- ◆ Main applications : homecare, furniture
- ◆ Input voltage : 110V AC 60Hz, 230V AC 50Hz
- ◆ Output voltage : 24V DC
- ◆ Overload protection current : 3A @ 24V (each actuator independently)
- ◆ Max. number of actuators this control box can drive : 4
- ◆ Max. number of handsets : 2
- ◆ Duty cycle : 10% or 2 min continuous operation in 20 min.
- ◆ IP protection level : IP20
- ◆ Protection class : Class II
- ◆ Color : black
- ◆ Certified : CISPR14-1, EN50366, EN55014-1, EN55014-2, EN60335-1, EN61000-3
- ◆ Cable length : 3000mm

# Options

| Versions | Features   | Options   |
|----------|--|---|
| CB4M     | Basic type, no positioning feedback                                | <ul style="list-style-type: none"> <li>◆ Rechargeable batteries (12V DC 1.3AH x 2) for operation</li> <li>◆ Charger function</li> <li>◆ Detachable AC Power Cord</li> <li>◆ Support actuator with hand crank</li> </ul> |
| CB4M-S   | All 4 Actuators synchronous. Support position memory and feedback. | ◆ Detachable AC Power Cord  |
| CB4M-B   | All 3 or 4 Actuators synchronous. No position memory and feedback. | ◆ Detachable AC Power Cord  |
| CB4M-P   | Partial synchronous (actuators #3 & #4)                            | ◆ Detachable AC Power Cord  |

# Compatibility

## 1. Handset

| Versions | Compatible handsets        | Remarks                      |
|----------|----------------------------|------------------------------|
| CB4M     | HD, H3F, HJ, HM, H2N, H3NT | Moteck Communication type P1 |
| CB4M-S   | DKP1, DKP3                 | Moteck Communication type S2 |
| CB4M-B   | DKP4, HDU                  | Moteck Communication type P2 |
| CB4M-P   | HD (6-key only)            | Moteck Communication type P3 |

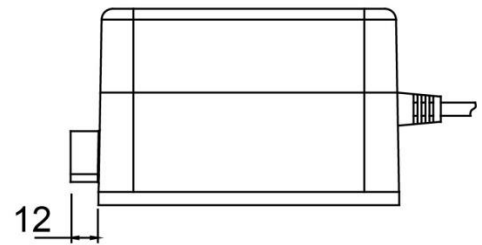
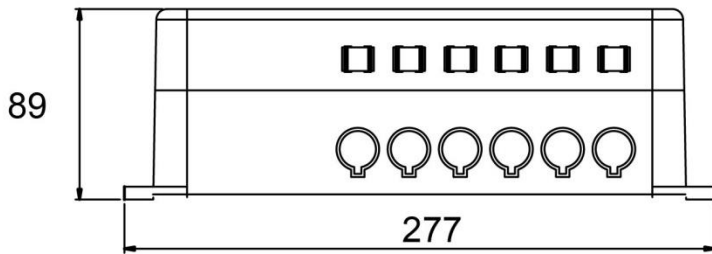
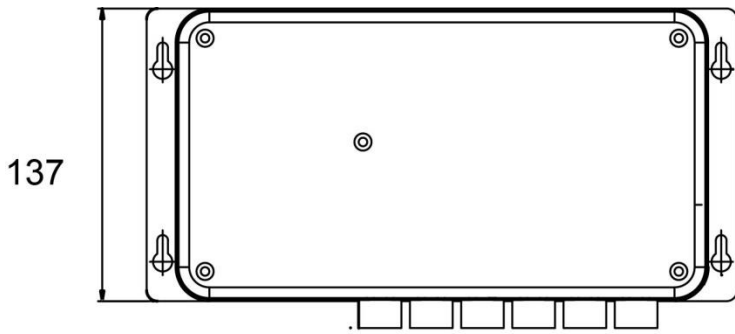
Remarks: Handsets must use Moteck F-type DIN plug

## 2. Actuator

FD60, FD20, FD50, GD70, PD63, BD61, LD10, LD20

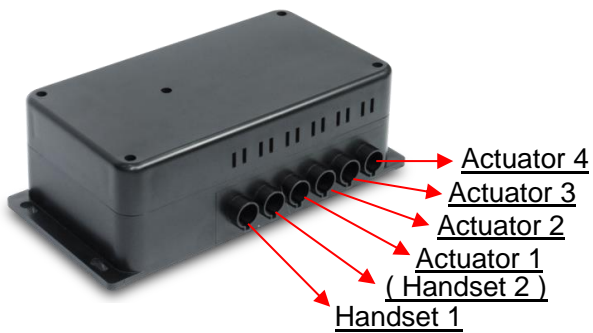
| Versions | Compatible actuators spec                            | Actuator plugs               |
|----------|--|------------------------------|
| CB4M     | No sensor  | Moteck F-type DIN Plug 4-pin |
| CB4M-S   | Hall effect sensors x 2                              | Moteck F-type DIN Plug 6-pin |
| CB4M-B   | Hall effect sensors x 2                              | Moteck F-type DIN Plug 6-pin |
| CB4M-P   | #1,#2 No sensor<br>#3,#4 with Hall effect sensor x 1 | Moteck F-type DIN Plug 4-pin |

# Dimensions

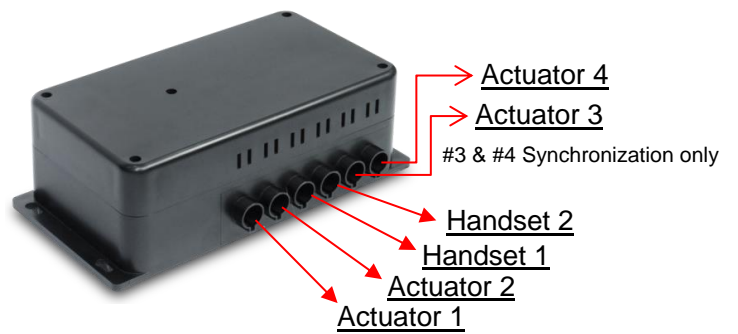


Unit: mm

# I/O Port



**CB4M**  
**CB4M-S**  
**CB4M-B**



**CB4M-P**

# Ordering Key

## CB4M

CB4M—□□□—24—□—□—CG—□□□□□—□

### Input Voltage

110 : 110V AC

230 : 230V AC

### Output Voltage

24 : 24V DC

### Number of Handset

1 : for 1 handset

2 : for 2 handsets

### Number of Motors

2 : for 2 actuators

3 : for 3 actuators

4 : for 4 actuators

### Charger Function

### Options

BA : With Battery

HC : Compatible to FD60 with crank function (Max. for 3 actuators)

BA-HC : With Battery & Compatible to FD60 with crank function (Max. for 3 actuators)

### Power Cord

(Blank) : Fixed type

D : Detachable AC power cord

## CB4M-S

CB4M-S—□□□—24—1—4—4SY—□

### Input Voltage

110 : 110V AC

230 : 230V AC

### Output Voltage

24 : 24V DC

### Number of Handset

1 : for 1 handset

### Number of Motors

4 : for 4 actuators

### Options

4SY : Synchronization for 4 actuators

### Power Cord

(Blank) : Fixed type

D : Detachable AC power cord

## CB4M-B

CB4M-B—□□□—24—1—□—□□□—□

### Input Voltage

110 : 110V AC

230 : 230V AC

### Output Voltage

24 : 24V DC

### Number of Handset

1 : for 1 handset

### Number of Motors

3 : for 3 actuators

4 : for 4 actuators

### Options

3SY : Synchronization for 3 actuators

4SY : Synchronization for 4 actuators

### Power Cord

(Blank) : Fixed type

D : Detachable AC power cord

## CB4M-P

CB4M-P—□□□—24—□—□—2SY—□

### Input Voltage

110 : 110V AC

230 : 230V AC

### Output Voltage

24 : 24V DC

### Number of Handset

1 : for 1 handset

2 : for 2 handsets

### Number of Motors

2 : for 2 actuators

3 : for 3 actuators

4 : for 4 actuators

### Options

2SY : Synchronization for 2 actuators

### Power Cord

(Blank) : Fixed type

D : Detachable AC power cord

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